

| | | |
|-----------|-----------|----------|
| APPROVED | S.E. FIG. | |
| BY | CLASS | SUBCLASS |
| DRAFTSMAN | | |

JCS96-017

| | INITIAL FMN BINDING REGION | | | | | |
|------------|----------------------------|------------|------------|-------------|-------------|-----|
| NCPR_HUMAN | ESSFVEKMKK | TGRNIIVFYG | SQTGTAEFFA | NRLSKD.AHR | YGMRGMSADP | 115 |
| NOSE_BOVIN | GTLMAKRV.. | ...KATILYA | SETGRAQSYA | QQLGRLEFRKA | FDPRVLCMD. | 556 |
| NOSB_RAT | GQAMAKRV.. | ...KATILYA | TETGKSQAYA | KTLCEIFKHA | FDKAMSME. | 789 |
| NOSM_MOUSE | RKVMASRV.. | ...RATVLFA | TETGKSEALA | RDLATLFSYA | FNTKVVCMD. | 567 |
| FLAV_ECOLI | ..... | ..AITGIFFG | SDTGNTEYTA | KMIQQL.GK | .D.VADVHDI | 35 |
| FLAV_DESVH | ..... | .MPKALIVYG | STTGNTEYTA | ETIARELADA | .GYEVDSDRDA | 38 |

| | FLANKING LOOP | | SECOND | FMN SITE | | |
|------------|---------------|------------|------------|------------|------------|-----|
| NCPR_HUMAN | EEYDLADLSS | LPEIDNALVV | FCMATYGECD | PTDNAQDFYD | WL.QE..... | 159 |
| NOSE_BOVIN | .EYDVVSL.. | ...EHETLVL | VVTSTFGNGD | PPENGESFAA | AL.MEMSGPY | 599 |
| NOSB_RAT | .EYDIVHL.. | ...EHEALVL | VVTSTFGNGD | PPENGEKFGC | AL.MEMRHP. | 831 |
| NOSM_MOUSE | .QYKASTL.. | ...EEEQLLL | VVTSTFGNGD | CPSNGQTLKK | SLFML..... | 606 |
| FLAV_ECOLI | AKSSKEDL.. | ...EAYDILL | LGIPWTWYGE | ...AQCDWD | DF.FP..... | 70 |
| FLAV_DESVH | ASVEAGGLF | ...EGFDLVL | LGCSTWGDDS | IE..LQDDFI | PL.FD..... | 76 |

| | LOCATION OF REGULATORY LOOP INSERT | | | | | |
|------------|------------------------------------|------------|------------|------------|------------|-----|
| NCPR_HUMAN | ..... | ..... | ..... | TDVDLSGVKF | 169 | |
| NOSE_BOVIN | NSSPRPEQHK | SYKIRFNSVS | CSDPLVSSWR | RKRKESNTD | SAGAGTLRFL | 649 |
| NOSB_RAT | NS..VQEEK | SYKVRFNSVS | SYSDSRKSSG | DGPDLRDNFE | STGPLANVRF | 879 |
| NOSM_MOUSE | ..... | ..... | ..... | ..... | .RELNHTFRY | 615 |
| FLAV_ECOLI | ..... | ..... | ..... | ..... | EEIDFNGKLV | 82 |
| FLAV_DESVH | ..... | ..... | ..... | ..... | EETGAQGRKV | 88 |

| | THIRD FMN SITE FLANKING LOOP | | | | |
|------------|------------------------------|------------|------------|------|-----|
| NCPR_HUMAN | AVFGLGNKT. | Y.EHFNAMGK | YVDKRLEQLG | AQRI | 201 |
| NOSE_BOVIN | CVFGLGSRA. | Y.PHFCAFA. | AVDTRLEELG | GERL | 680 |
| NOSB_RAT | SVFGLGSRA. | Y.PHFCAFGH | AVDTLLEELG | GERI | 911 |
| NOSM_MOUSE | AVFGLGSSM. | Y.PQFCFAFH | DIDQKLSHLG | ASQL | 647 |
| FLAV_ECOLI | ALFGCGDQED | YAEYFCDALG | TIRDIIEPRG | ATIV | 116 |
| FLAV_DESVH | ACFGCGDSS. | Y.EYFCGAVD | AIEEKLKNLG | AEIV | 120 |

09398405 "091699